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NOTES:

- 1 TORQUE ACCORDING TO TORQUE TABLE ON SHEET 4
2. APPLY O-RING LUBRICANT F/N 60 ON ALL O-RINGS DURING ASSEMBLY
- 3 APPLY ANTISEIZE F/N 61 TO FAYING SURFACES
- 4 APPLY LOCTITE F/N 64 ON THREADS
- 5 APPLY TORQUE SEAL F/N 62
- 6 IDENTIFY IAW MPP-120; LASER ENGRAVE ALL REQUIRED INFORMATION
- 7 REFER TO CONFIGURATION SPECIFIC VIEWS FOR DETAILED ASSEMBLY INSTRUCTIONS, SHEET 12-16
- 8 APPLY DIELECTRIC GREASE F/N 59 TO FAYING SURFACES
- 9 BACK-UP RINGS F/N 46 MUST BE CLOCKED 60° - 120° OUT OF ALIGNMENT WHEN INSTALLED
- 10 APPLY LOCTITE F/N 63 ON THREADS
- 11 ASSEMBLE IAW MPP-179
- 12 SAFETY WIRE F/N 39 TO F/N 36 USING F/N 71
- 13 ORIENT PRESSURE GAUGE AS SHOWN.

PJ5

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
N/C	INITIAL RELEASE	05-30-14	P. BRAVO
A	INCORPORATED ECN 04716	10-17-14	P. BRAVO
B	INCORPORATED ECN 04915	04-02-15	P. BRAVO
C	INCORPORATED ECN 05044	07-23-15	P. BRAVO
D	INCORPORATED ECN 05087	08-14-15	P. BRAVO
E	INCORPORATED ECN 05124	09-01-15	P. BRAVO
F	INCORPORATED ECN 05317	02-11-16	P. BRAVO
G	INCORPORATED ECN 05343	03-15-16	P. BRAVO
H	INCORPORATED ECN 06036	07-18-18	P. BRAVO
J	INCORPORATED ECN 06159	08-20-19	P. BRAVO

1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	34	601.3374	O-RING	N0674-705-193	
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1																					24	601.2587	SNAP RING		
1																					23	601.1882	BANJO WASHER	NAS1149C0663R	
																					22	650.6213	BANJO -10		
																					21	650.6212	BANJO -8	ALT. 645.6312	
																					20	650.6211	BANJO -6	ALT. 645.6311	
1																					19	650.6210	BANJO -4	ALT. 645.6310	
																					18	650.6316	SWIVEL FITTING ASSY		
																					17	650.6302	SWIVEL FITTING ASSY	ALT.645.6402	
1																					16	650.6301	SWIVEL FITTING ASSY	ALT. 645.6401	
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	15	600.0266	FUSIBLE PLUG	A-51057-S	△△△4△5
																					14	650.6515	EXTENDED GAUGE ADAPTER	ALT. 645.7515	△△△4△5
																					13	650.6512	GAUGE ADAPTER	ALT. 645.7512	△△△4△5
1																					12	601.3739	GAUGE	B51051-6000	△△△4△5
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1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	650.6511	FILL PORT ADAPTER	ALT 645.7511	
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1	1	1																			1	650.6410	SAFETY DISC RETAINER (6K)		△△△4△5
X																						650.5321	MECANICAL VALVE ASSY -4		△△△
	X																					650.5320	THERMOMETER VALVE ASSY		△△△
		X																				650.5319	VALVE ASSY -8/-10 FLARELESS		△△△
			X																			650.5318	90 DEGREE GAUGE VALVE ASSY -6		△△△
				X																		650.5317	ANGLED GAUGE VALVE ASSY -4		△△△
					X																	650.5316	LONG GAVUE VALVE ASSY -10		
						X																650.5315	VALVE ASSY -10		
							X															650.5314	LONG GAUGE VALVE ASSY -10		
								X														650.5313	VALVE ASSY -10		
									X													650.5312	LONG GAUGE VALVE ASSY -8		
										X												650.5311	LONG GAUGE VALVE ASSY -6		
											X											650.5310	LONG GAUGE VALVE ASSY -4		
												X										650.5309	VALVE ASSEMBLY -8		
													X									650.5308	VALVE ASSEMBLY -6		
														X								650.5307	VALVE ASSEMBLY -4		
															X							650.5306	LONG GAUGE VALVE ASSY -8		
																X						650.5305	LONG GAUGE VALVE ASSY -6		
																	X					650.5304	LONG GAUGE VALVE ASSEMBLY -4		
																		X				650.5303	VALVE ASSEMBLY -8		
																			X			650.5302	VALVE ASSEMBLY -6		
																				X		650.5301	VALVE ASSEMBLY -4		
.5321	.5320	.5319	.5318	.5317	.5316	.5315	.5314	.5313	.5312	.5311	.5310	.5309	.5308	.5307	.5306	.5305	.5304	.5303	.5302	.5301	F/N	P/N	DESCRIPTION	MAT'L	SPEC

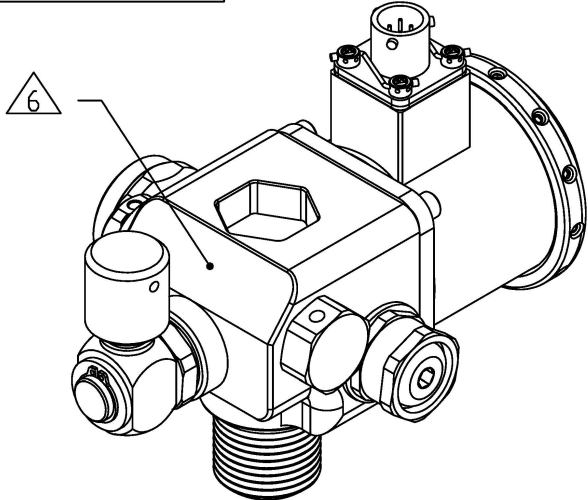
PROTOTYPE REVISIONS							
ZONE	REV	DESCRIPTION	DATE	APPROVED	CHANGE CODE	EFFECTIVITY	REVISED BY
-	PJ1 - PJ4	REFER TO PREVIOUS REVISIONS	-	T. CROSS	MDI	NEXT ORDER	K. TAILOR
SHEET 1, 2, 5, 7, 9, 15	PJ5	REMOVED ALL CHANGES FROM PJ1-PJ4, CHANGED BDM FOR 5320 CONFIGURATION, REVISED TORQUE TABLE SHT 4 AND VIEWS SHT 5, 7, 9, AND 15	11-12-21	J. GARDINER	MDI	NEXT ORDER	E. ANDERSSON

QTY		PARTS LIST			
NEXT ASSY (S)		ORIGINAL DATE (MO-DA-YR) 05-30-14	<div><div>DART AEROSPACE</div><div>8030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300</div></div>		
		DRAWN BY J. GARDINER			
		CHECKER P. BRAVO			
		DRAWING APPROVAL	ELECTRIC VALVE ASSY		
		DATE 05-30-14			
		CONTRACT No.			
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ± .5°			
		SIZE B	CAGE CODE 07MZ6	DWG NO. 650.5300	REV. PJ5
		SCALE NONE		SHEET 1 OF 16	



ORIGINAL DATE (MO-DA-YR) 05-30-14	 8030 ENTERPRISE CT., SUITE A VISTA, CA. 92088 (760)-724-5300	
DRAWN BY J. GARDINER		CHECKER P. BRAVO
DRAWING APPROVAL P. BRAVO 05-30-14		
CONTRACT No.		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ± 5°		APICAL INDUSTRIES, INC. aka DART AEROSPACE
ELECTRIC VALVE ASSY		SIZE CAGE CODE DWG. NO. REV. B 07MZ6 650.5300 PJ5
SCALE N/TITLE		SHEET 2 OF 16

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650.53XX - XX - ELEC - XX

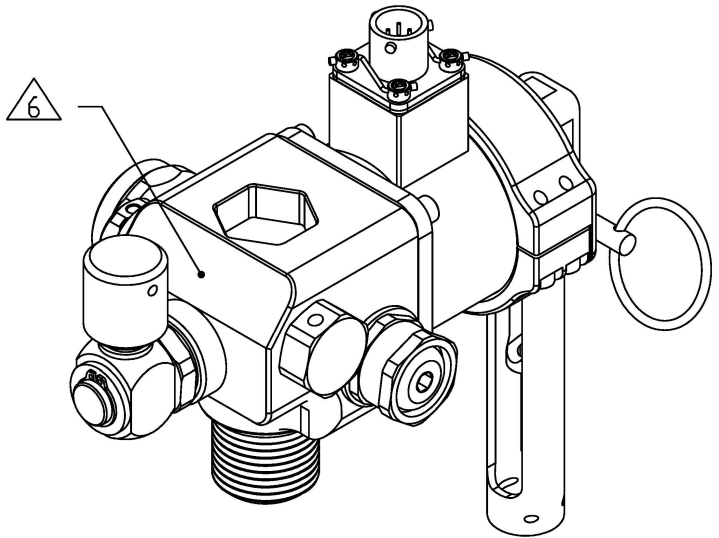
ROOT DRAWING ASSEMBLY NUMBER

SOLENOID ORIENTATION
(SEE SHEET 4)

PORT FITTING CONFIGURATION
(SEE SHEET 4)

SHROUD ROTATION ANGLE & DIRECTION
(NOT APPLICABLE, REPLACE WITH "ELEC")

PART NUMBER LAYOUT FOR ELECTRICAL ONLY CONFIGURATIONS



650.53XX - XX - XXX XX - XX

ROOT DRAWING ASSEMBLY NUMBER

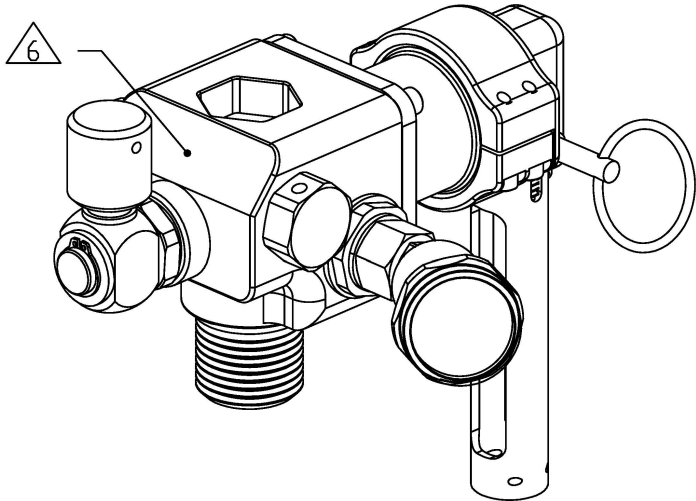
SOLENOID ORIENTATION
(SEE SHEET 4)

PORT FITTING CONFIGURATION
(SEE SHEET 4)

DIRECTION OF SHROUD ROTATION
(SEE SHEET 4)

SHROUD ROTATION ANGLE
(SEE SHEET 4)

PART NUMBER LAYOUT FOR ELECTRICAL/MECHANICAL CONFIGURATIONS



650.53XX - MEC - XXX XX - XX

ROOT DRAWING ASSEMBLY NUMBER

SOLENOID ORIENTATION
(NOT APPLICABLE, REPLACE WITH "MEC")


PORT FITTING CONFIGURATION
(SEE SHEET 4)

DIRECTION OF SHROUD ROTATION
(SEE SHEET 4)

SHROUD ROTATION ANGLE
(SEE SHEET 4)

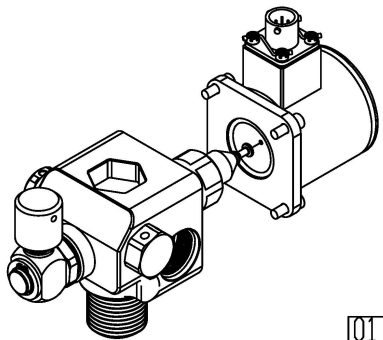
PART NUMBER LAYOUT FOR MECHANICAL CONFIGURATIONS

ORIGINAL DATE (MM-DA-YR)	05-30-14
DRAWN BY	CHECKER
J. GARDNER	P. BRAVO
DRAWING APPROVAL	
P. BRAVO	
05-30-14	
CONTRACT No.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°	

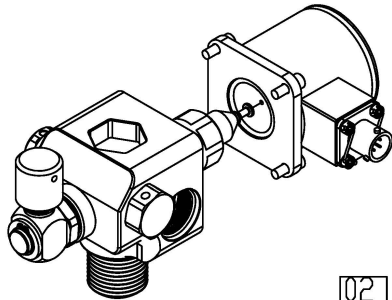
 APICAL INDUSTRIES, INC. dba DART AEROSPACE		8030 ENTERPRISE CT., SUITE A VISTA, CA 92081 (760)-724-5300	
		ELECTRIC VALVE ASSY	
SIZE	CAGE CODE	DWG. NO.	REV.
B	07MZ6	650.5300	PJ5
SCALE NONE		SHEET 3 OF 16	

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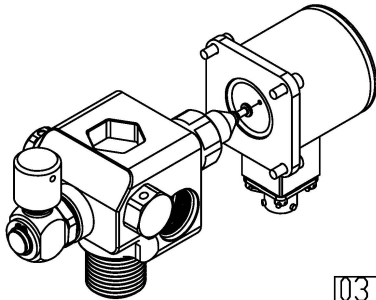
SOLENOID ORIENTATION - 650.53XX - XX - XXX XX - XX



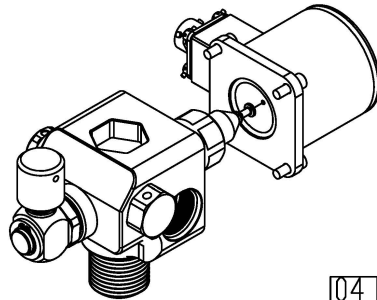
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02



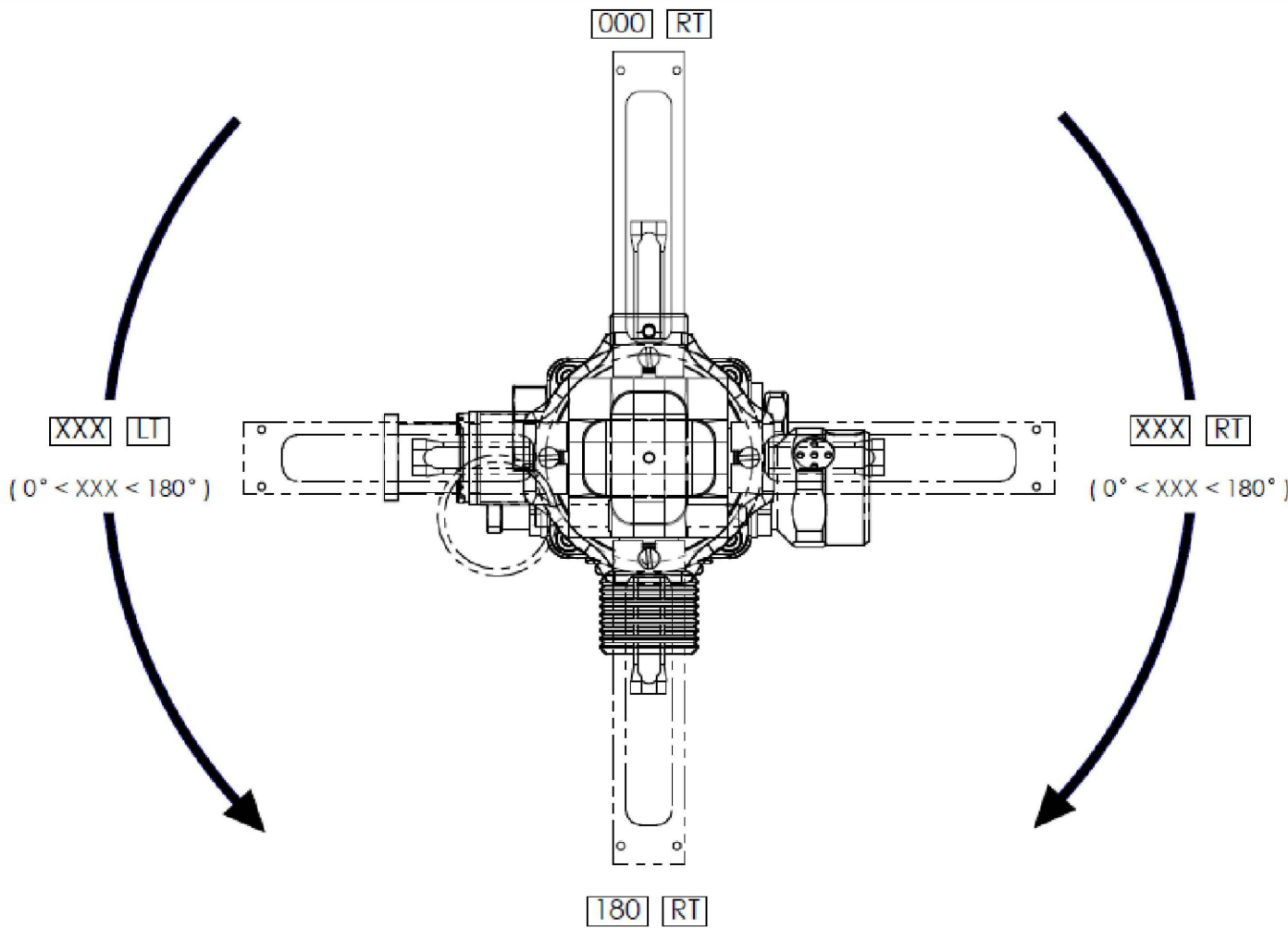
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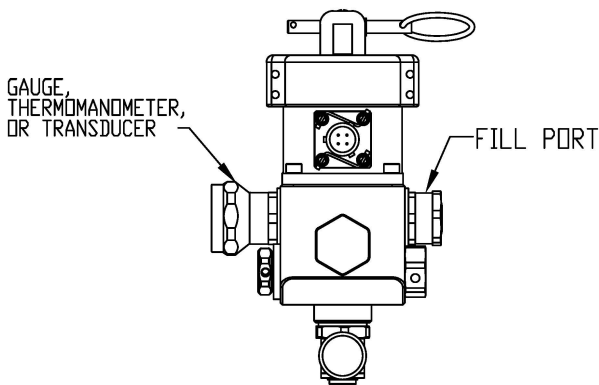
04

TORQUE TABLE		
F/N	DESCRIPTION	VALUE
1	SAFETY DISC RETAINER	20 FT-LBS
5	FILL PORT ADAPTER	35 FT-LBS
6	FILL PORT	30 FT-LBS
7	PLUG FITTING	10 FT-LBS
12	GAUGE	25 FT-LBS
13/14/74 /76/78	GAUGE ADAPTER	35 FT-LBS
15	FUSIBLE PLUG	20 FT-LBS
16/17/18	SWIVEL FITTING	30 FT-LBS
26	DISC RETAINER	10 FT-LBS
42	SOCKET HEAD CAP SCREW	10 IN-LBS
48	SPRING STOP	5 FT-LBS
56	SHUTTLE HOUSING	20 FT-LBS
57	SOCKET HEAD CAP SCREW	15 FT-LBS
69	OVAL POINT SET SCREW	5 FT-LBS
73	LOCKNUT	25 IN-LBS
79	PRESSURE TRANSDUCER	35 FT-LBS
85	THERMOMANOMETER	25 FT-LBS

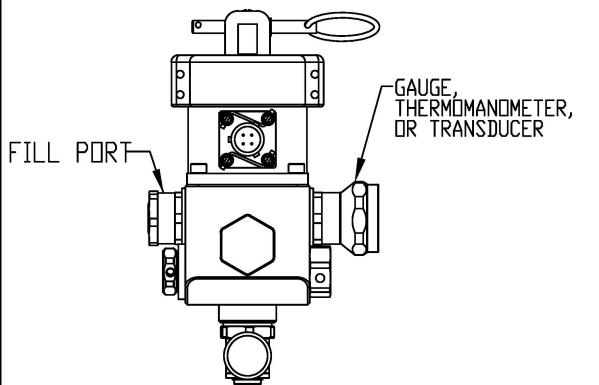
SHROUD ROTATION ANGLE AND DIRECTION - 650.53XX - XX - XXX XX - XX



PORT FITTING CONFIGURATION - 650.53XX - XX - XXX XX - XX



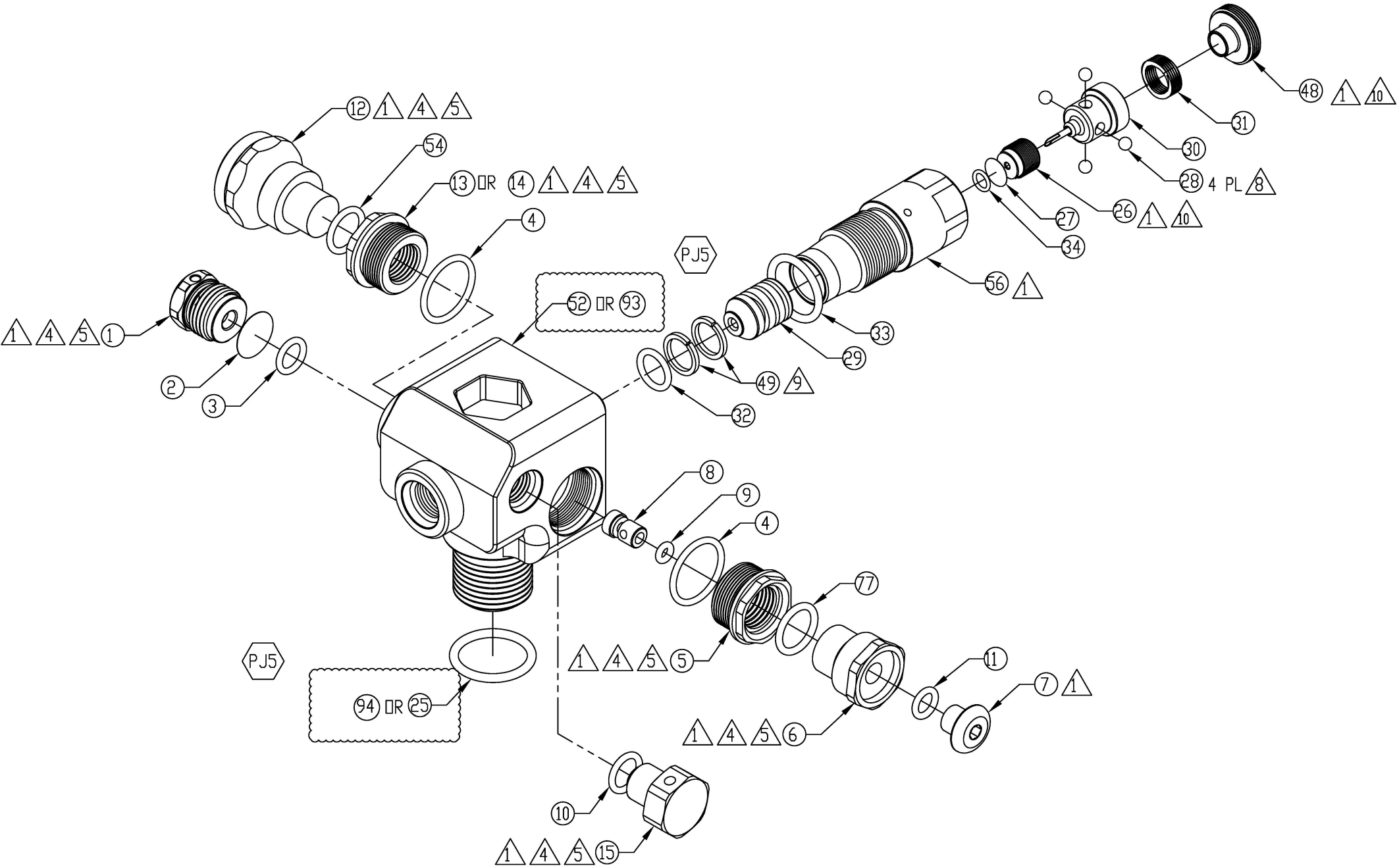
01




02

ORIGINAL DATE 05-30-14	8030 ENTERPRISE CT., SUITE A VISTA, CA 92081 (760)-724-5300
DRAWN BY J. GARDINER	CHECKER P. BRAVO
DRAWING APPROVAL P. BRAVO 05-30-14	APICAL INDUSTRIES, INC. dba DART AEROSPACE
CONTRACT No.	ELECTRIC VALVE ASSY
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°	SIZE CAGE CODE DWG. NO. REV. B 07MZ6 650.5300 PJ5
	SCALE NONE SHEET 4 OF 16

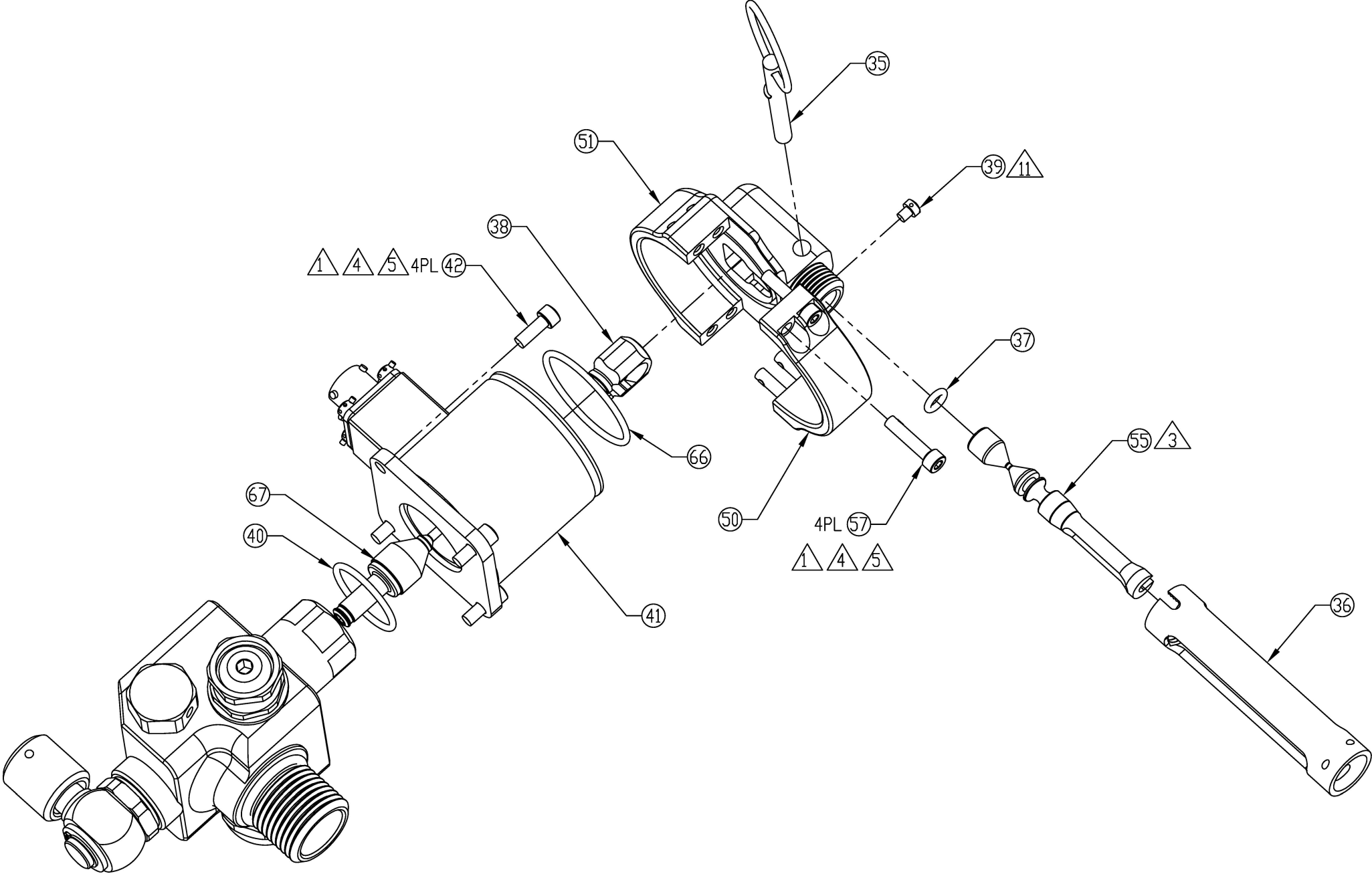
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EXPLODED VIEW
TYPICAL INTERNAL AND PORT PART INSTALLATION
ALL CONFIGURATIONS


ORIGINAL DATE (MO-DA-YR) 05-30-14		 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300			
DRAWN BY J. GARDNER	CHECKER P. BRAVO				
DRAWING APPROVAL P. BRAVO 05-30-14					
CONTRACT No.		APICAL INDUSTRIES, INC. dba DART AEROSPACE			
		ELECTRIC VALVE ASSY			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SIZE B	CAGE CODE 07MZ6	DWG. NO. 650.5300	REV. PJ5
		SCALE NONE			SHEET 5 OF 16

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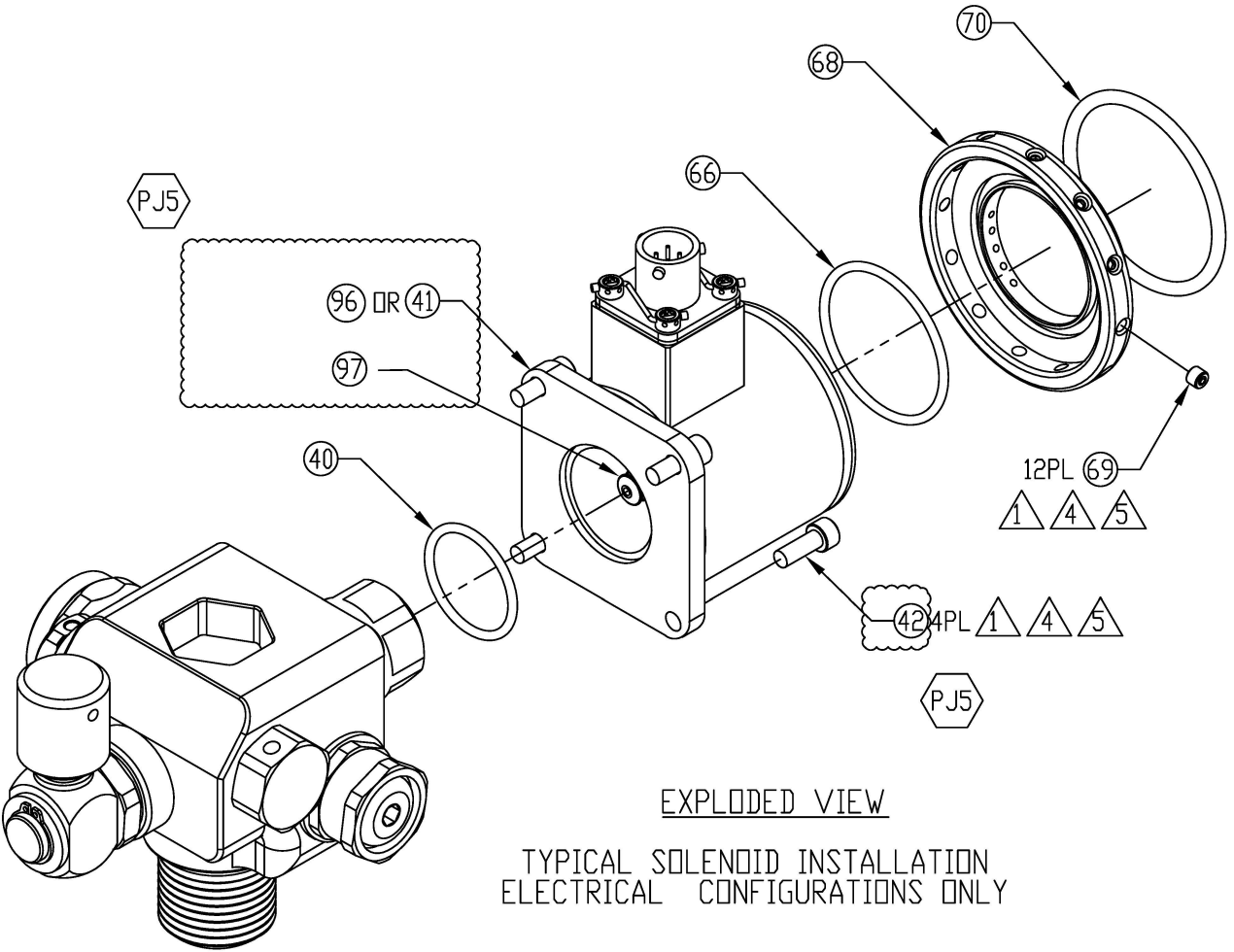
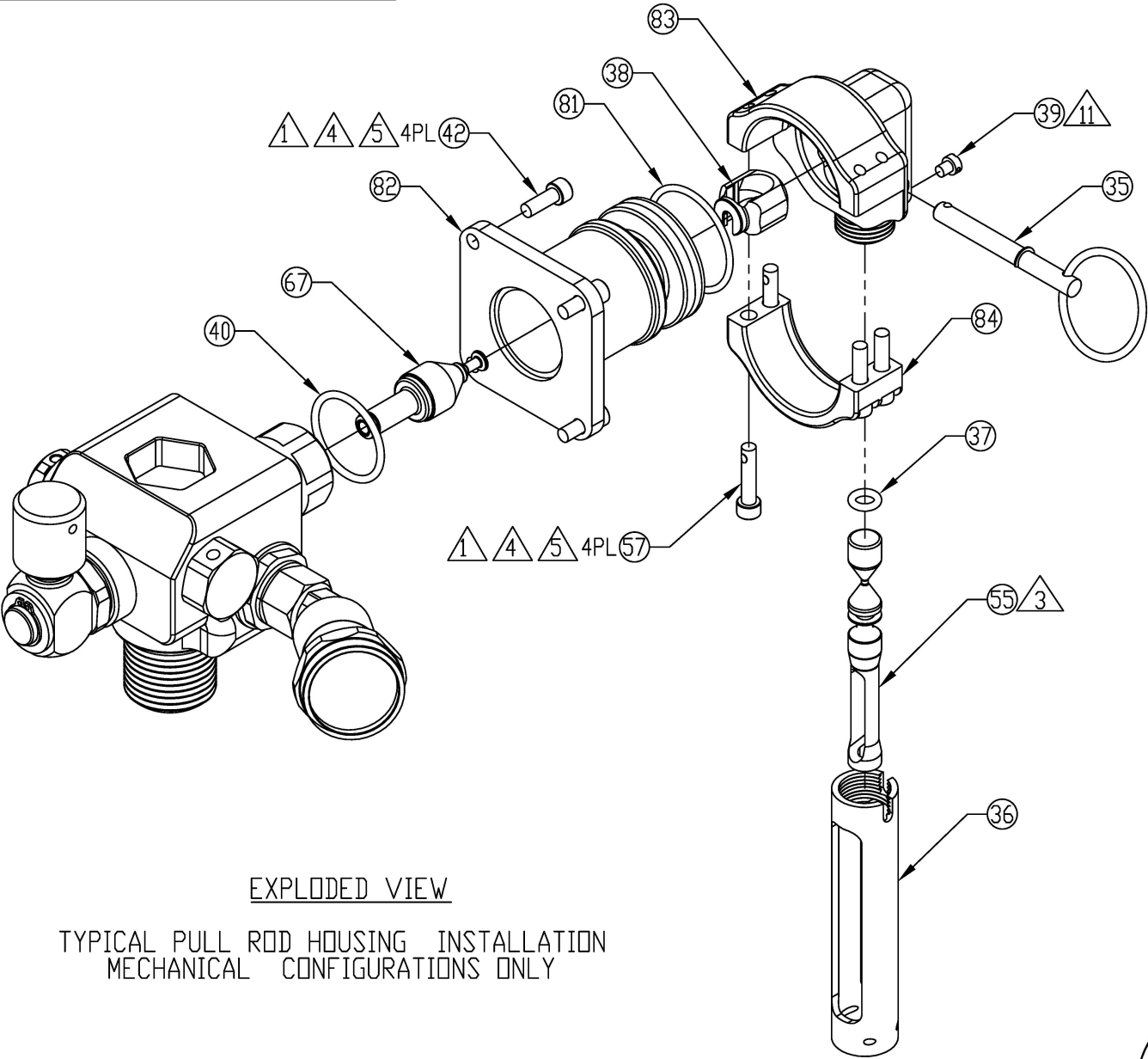


EXPLODED VIEW

TYPICAL SOLENOID AND PULLROD HOUSING INSTALLATION
ELECTRICAL/MECHANICAL CONFIGURATIONS

ORIGINAL DATE (MO-DA-YR) 05-30-14		 DART AEROSPACE <small>APICAL INDUSTRIES, INC. dba DART AEROSPACE</small>		8030 ENTERPRISE CT., SUITE A VISTA, CA 92081 (760)-724-5300	
DRAWN BY J. GARDINER	CHECKER P. BRAVO				
DRAWING APPROVAL P. BRAVO 05-30-14		ELECTRIC VALVE ASSY			
CONTRACT No.		SIZE B	CAGE CODE 07MZ6	DWG. NO. 650.5300	REV. PJ5
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ± .5°		SCALE NONE		SHEET 6 OF 16	

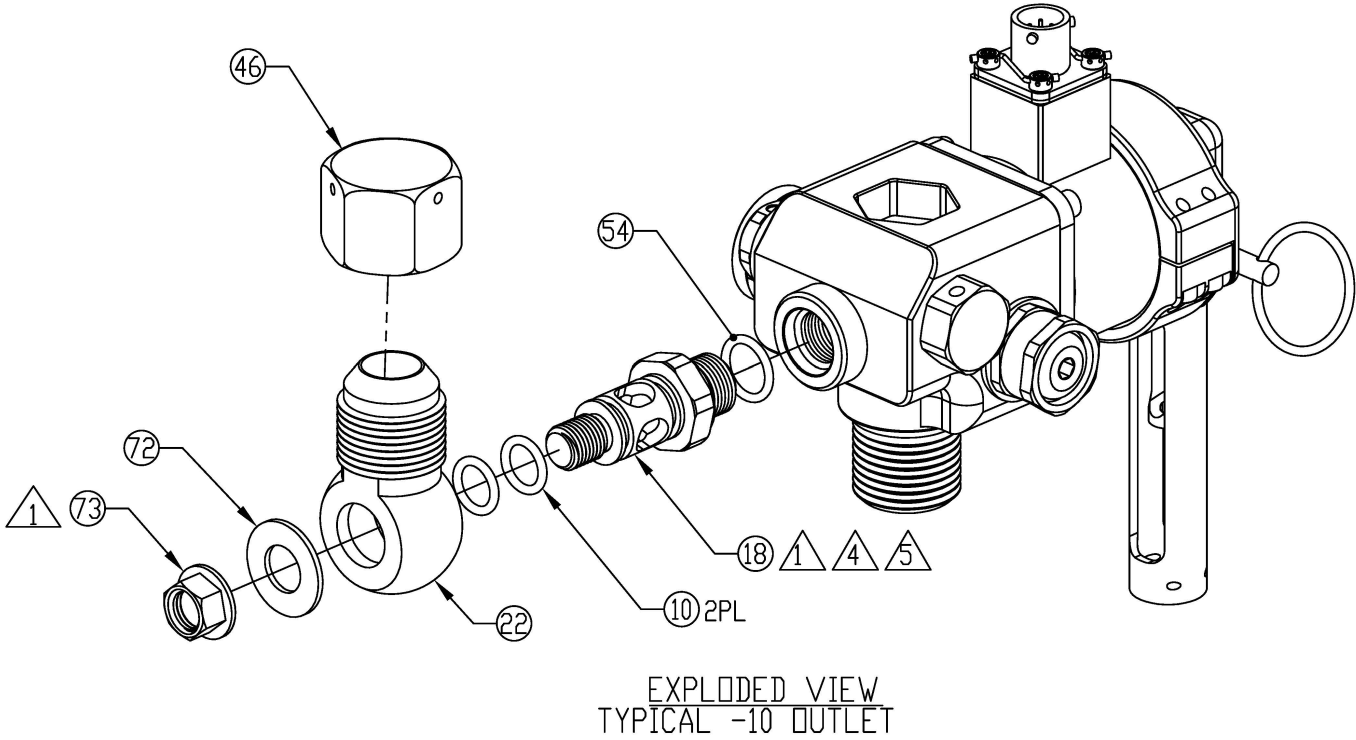
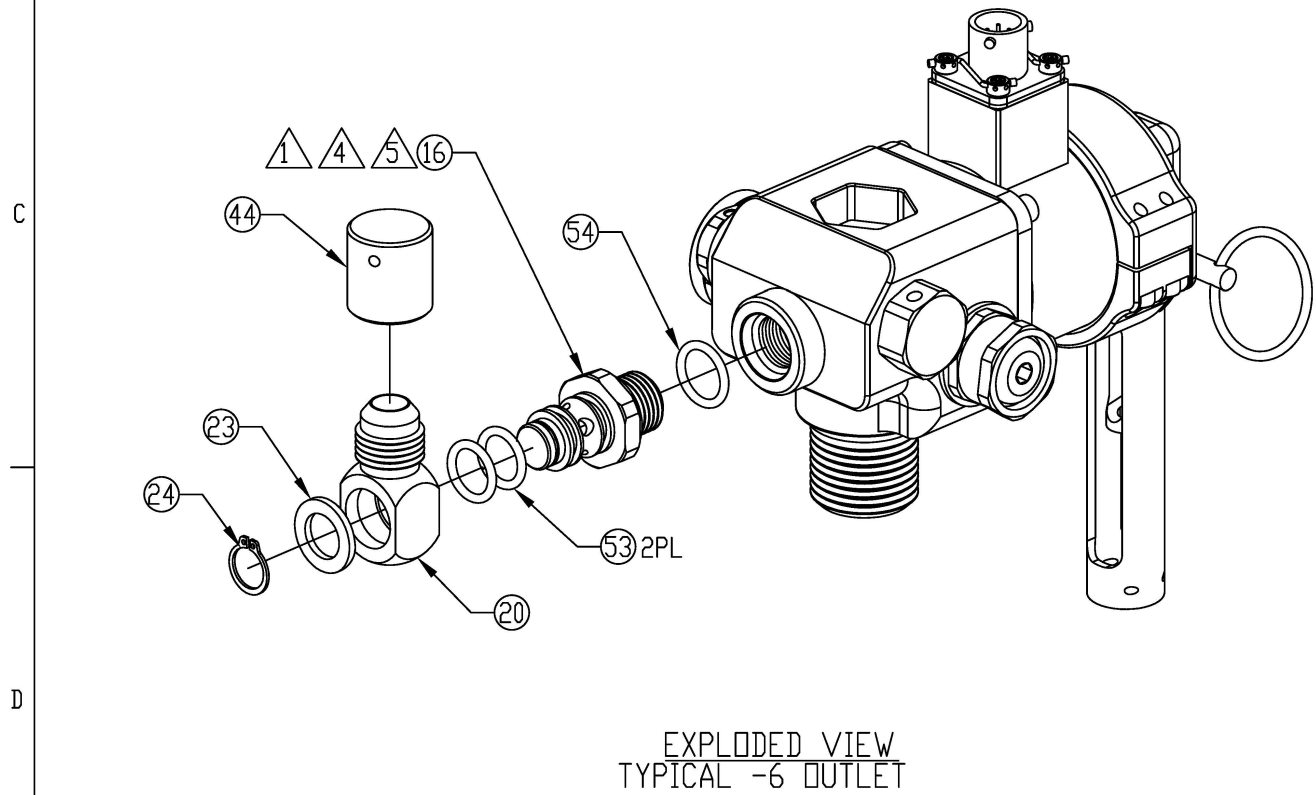
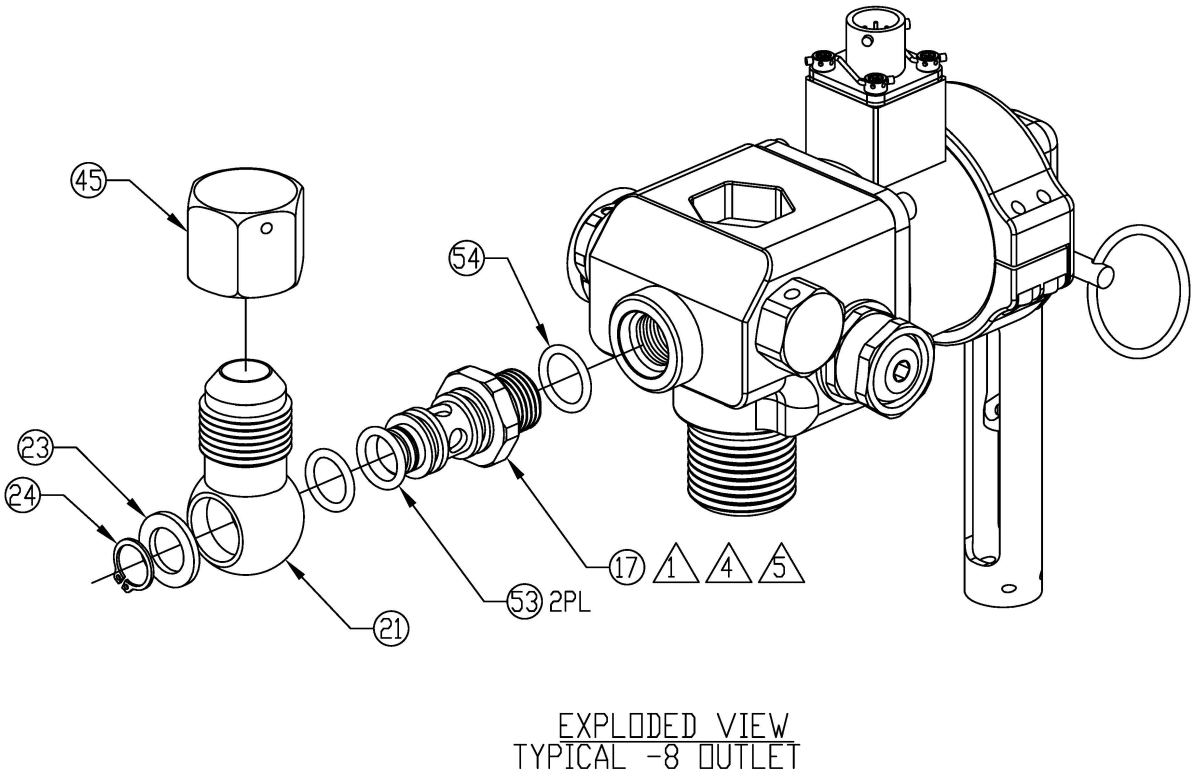
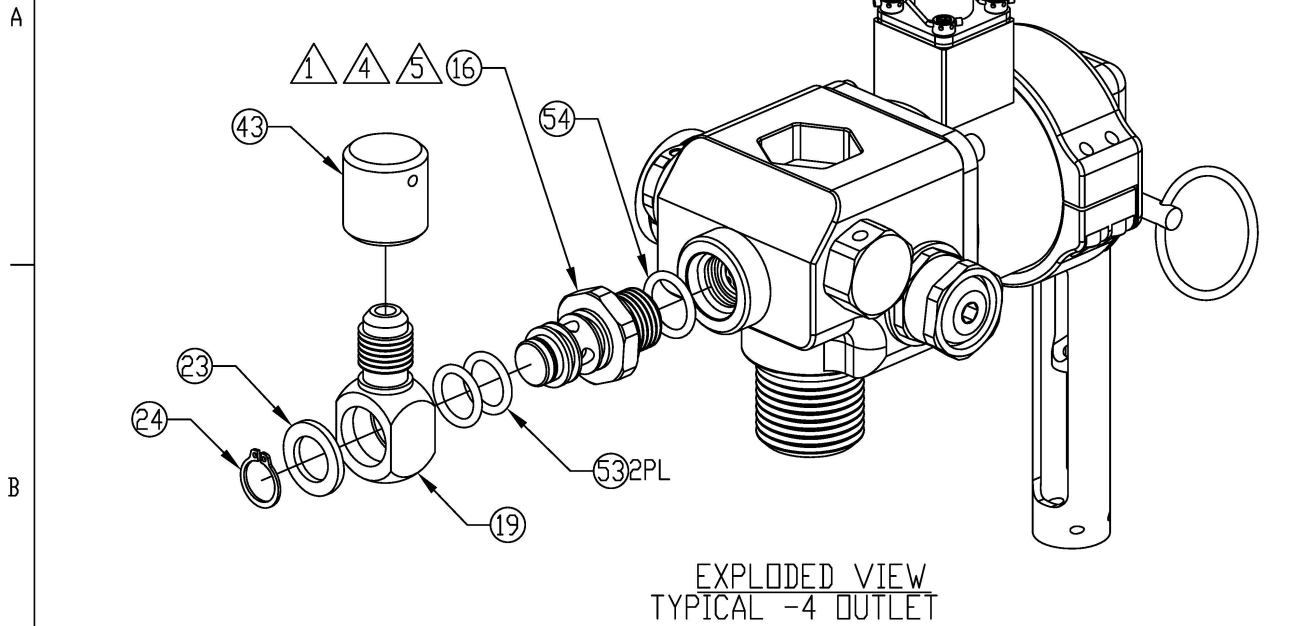
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ORIGINAL DATE (MO-DA-YR) 05-30-14	
DRAWN BY J. GARDINER	CHECKER P. BRAVO
DRAWING APPROVAL P. BRAVO 05-30-14	
CONTRACT No.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°	

DART AEROSPACE APICAL INDUSTRIES, INC. dba DART AEROSPACE		3030 ENTERPRISE CT., SUITE A VISTA, CA 92081 (760)-724-5300
ELECTRIC VALVE ASSY		
SIZE B	CAGE CODE 07MZ6	DWG. NO. 650.5300
SCALE NONE	REV. PJ5 SHEET 7 OF 16	

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ORIGINAL DATE (MO-DA-YR) 05-30-14	 DART AEROSPACE	8030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300			
DRAWN BY J. GARDINER					
CHECKER P. BRAVO					
DRAWING APPROVAL P. BRAVO 05-30-14					
CONTRACT No.	ELECTRIC VALVE ASSY				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°					
SIZE B	CAGE CODE 07MZ6	DWG. NO. 650.5300	REV. PJ5		
SCALE NONE		SHEET 8 OF 16			

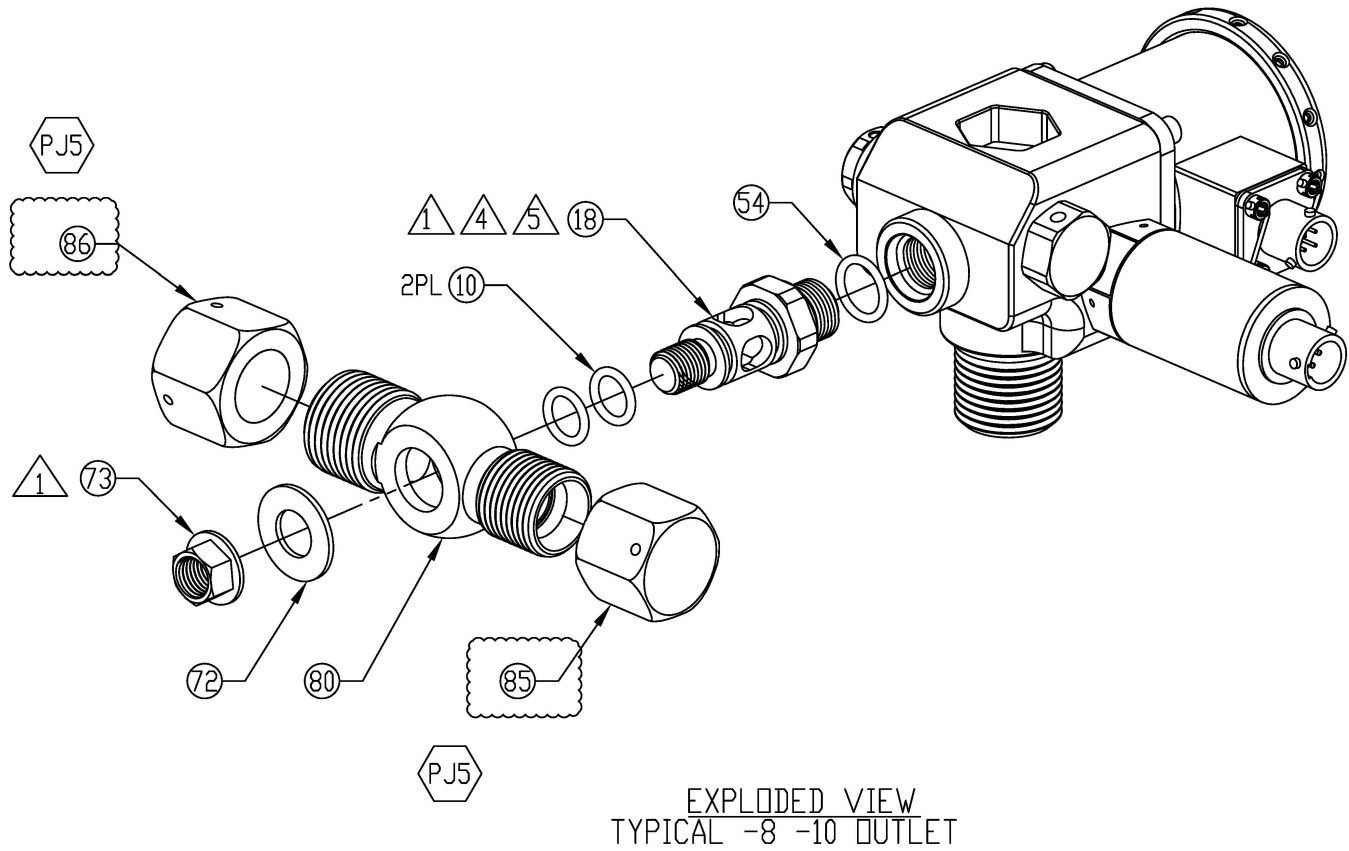
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A


B

C

D



ORIGINAL DATE (MO-DA-YR) 05-30-14		 8030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
DRAWN BY CHECKER J. GARDINER P. BRAVO			
DRAWING APPROVAL P. BRAVO 05-30-14		APICAL INDUSTRIES, INC. dba DART AEROSPACE	
CONTRACT No.		ELECTRIC VALVE ASSY	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°			
SIZE	CAGE CODE 07MZ6	DWG. NO. 650.5300	REV. PJ5
SCALE NONE		SHEET 9 OF 16	

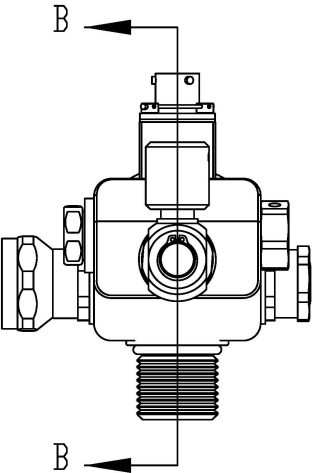
ORIGINAL DATE (MM-DAY-YR)	05-30-14	 DART AEROSPACE APICAL INDUSTRIES, INC. dco DART AEROSPACE	8030 ENTERPRISE CT., SUITE A VISTA, CA 92081 (760)-724-5300			
DRAWN BY	CHECKER					
J. GARDINER	P. BRAVO					
DRAWING APPROVAL						
DRAWN BY						
05-30-14						
CONTRACT No.						
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 ANGLES ± .5°		ELECTRIC VALVE ASSY				
		SIZE	CAGE CODE	DWG. NO.	REV.	
		B	07M26	650.5300	PJ5	
		SCALE NONE			SHEET 10 OF 16	

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O-RING IS EXCLUDED FROM NOTE 2. APPLY THOROUGH AND EVEN COAT OF F/N 58 SUPER O-LUBE.

APPLY SPARINGLY TO ALL TRIGGER BALLS. USE ONLY ENOUGH LUBRICANT TO COAT EACH TRIGGER BALL IN A THIN FILM.


APPLY EXCESS O-RING LUBRICANT



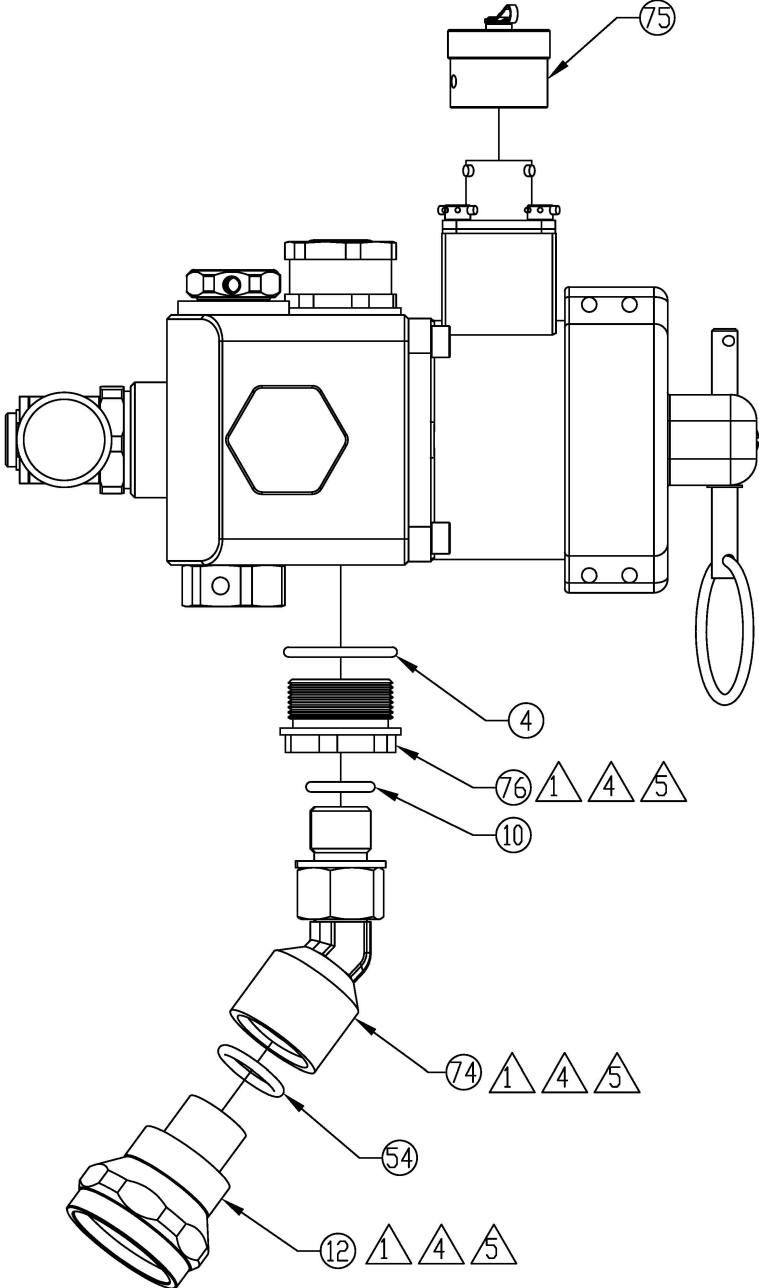
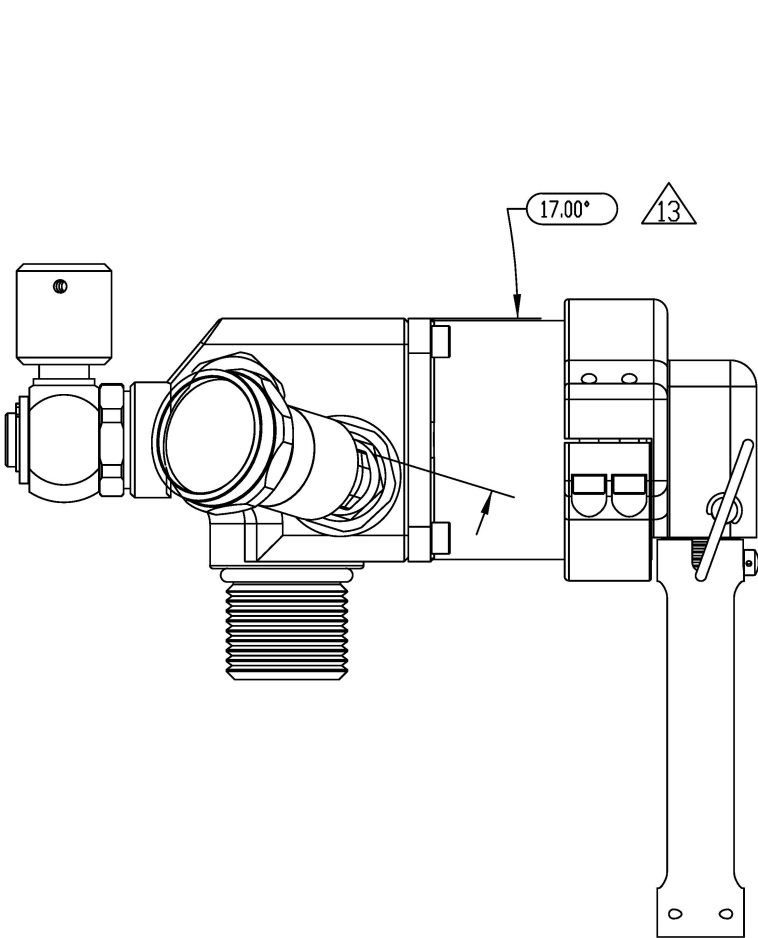
FRONT VIEW

SECTION B-B


ASSEMBLY REFERENCE
(TYPICAL ELECTRICAL CONFIGURATION)

ORIGINAL DATE (MO-DA-YR) 05-30-14		 DART AEROSPACE	8030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
DRAWN BY J. GARDNER	CHECKER P. BRAVO			
DRAWING APPROVAL P. BRAVO 05-30-14				
CONTRACT No.		APICAL INDUSTRIES, INC. dba DART AEROSPACE		
ELECTRIC VALVE ASSY				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°				
SIZE	CAGE CODE 07MZ6	DWG. NO. 650.5300	REV. PJ5	
SCALE NONE			SHEET 11 OF 16	

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650.5317 CONFIGURATION ONLY

ORIGINAL DATE (MD-DA-YR) 05-30-14		 DART AEROSPACE		8030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
DRAWN BY J. GARDINER	CHECKER P. BRAVO				
DRAWING APPROVAL P. BRAVO 05-30-14		APICAL INDUSTRIES, INC. dba DART AEROSPACE		ELECTRIC VALVE ASSY	
CONTRACT No.		SIZE B	CAGE CODE 07MZ6	DWG. NO. 650.5300	REV. PJ5
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SCALE NONE		SHEET 12 OF 16	

[illegible]

650.5318 CONFIGURATION ONLY

ORIGINAL DATE (MM-DA-YR) 05-30-14	 DART AEROSPACE	8030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300			
DRAWN BY J. GARDINER		CHECKER P. BRAVO			
DRAWING APPROVAL P. BRAVO 05-30-14		APICAL INDUSTRIES, INC. dba DART AEROSPACE			
CONTRACT No.					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ± .5°		ELECTRIC VALVE ASSY			
		SIZE	CAGE CODE	QWG NO.	REV.
		B	07MZ6	650.5300	PJ5
		SCALE NONE		SHEET 13 OF 16	

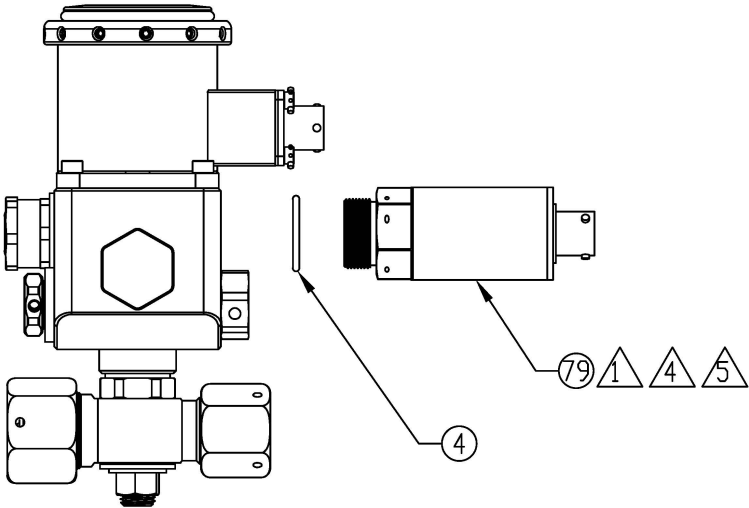
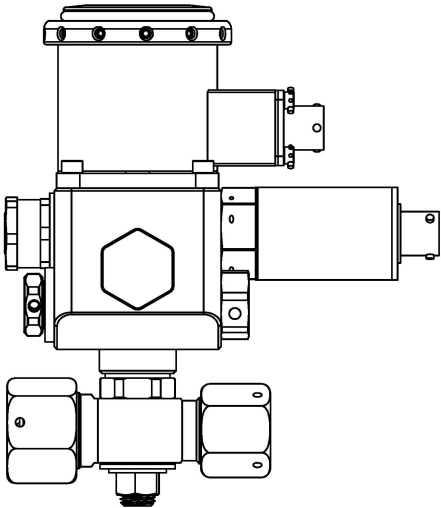
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A


B

C

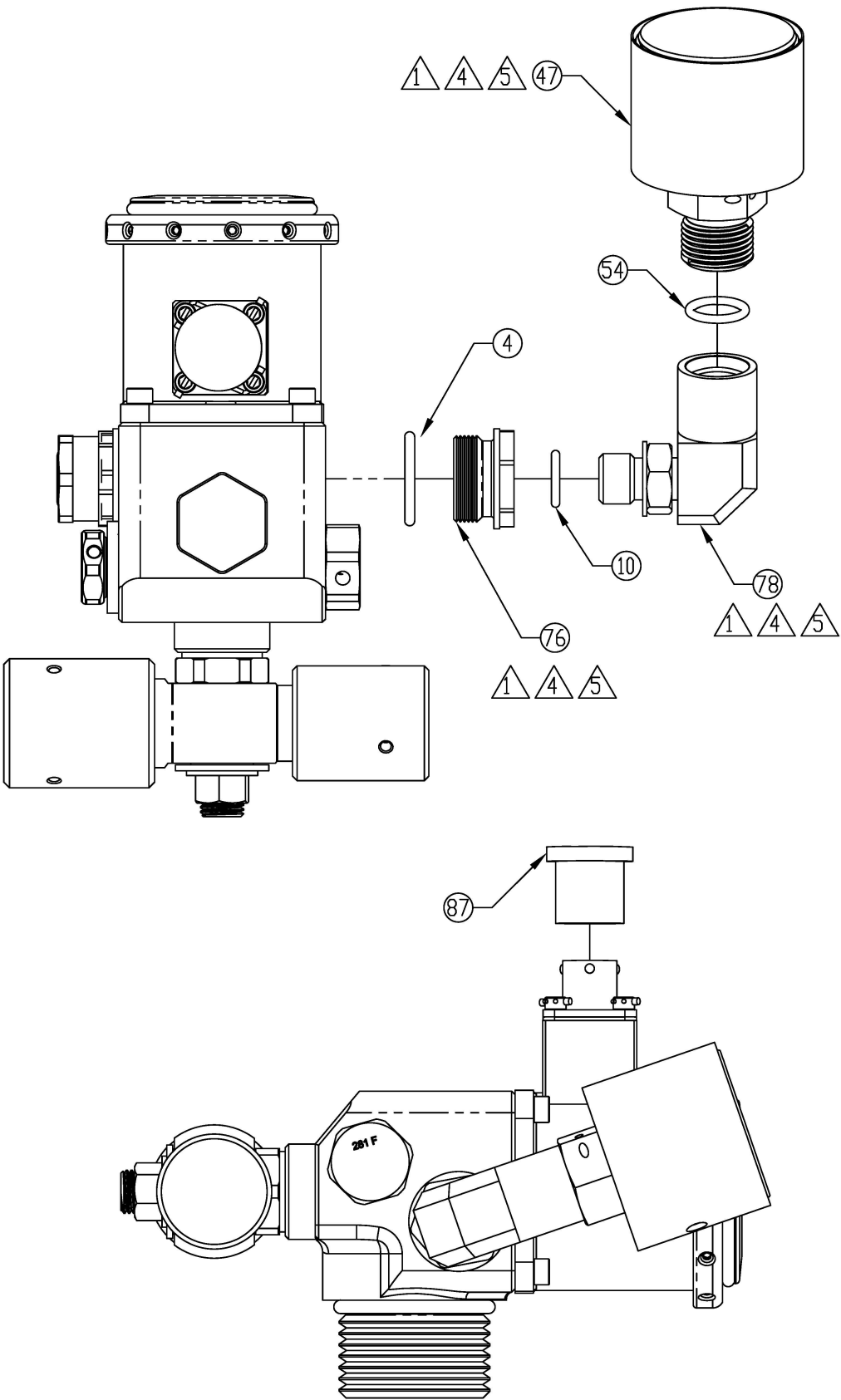
D



650.5319 CONFIGURATION ONLY

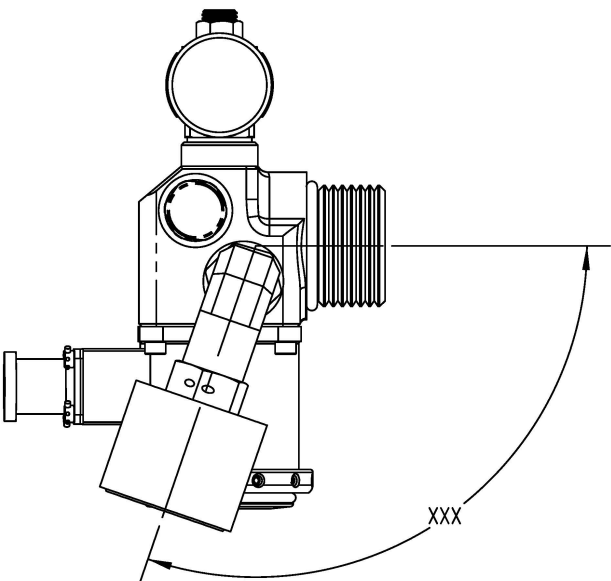
ORIGINAL DATE (MO-DA-YR) 05-30-14		 DART AEROSPACE		8030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
DRAWN BY J. GARDNER					
DRAWING APPROVAL P. BRAVO 05-30-14		APICAL INDUSTRIES, INC. dba DART AEROSPACE		ELECTRIC VALVE ASSY	
CONTRACT No.					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ± .5°		SIZE	CAGE CODE	DWG. NO.	REV.
		B	07MZ6	650.5300	PJ5
		SCALE NONE		SHEET 14 OF 16	

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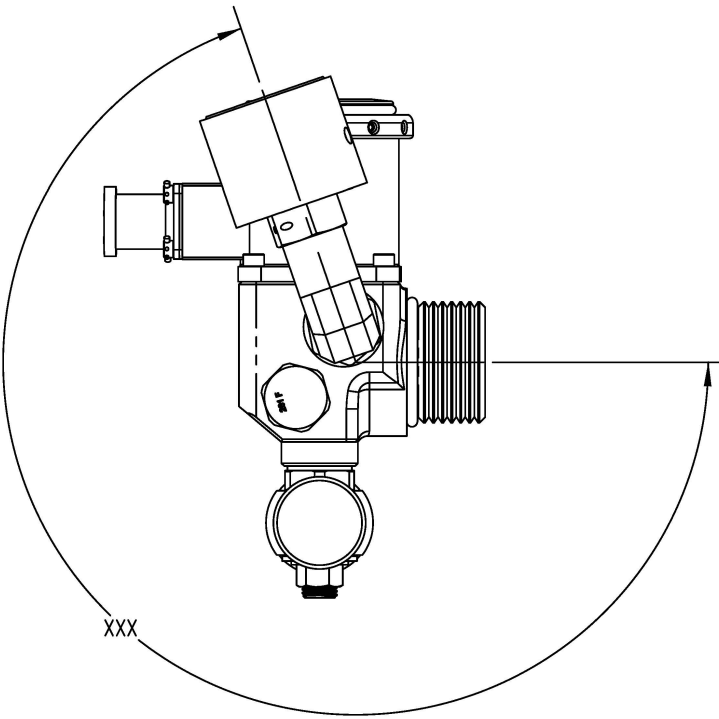


650.5320 CONFIGURATION ONLY

GAUGE ORIENTATION - 650.5320 - XX - ELEC - XX - ~~XXX~~
DEGREES FROM EXTERNAL THREAD OF BODY TO CENTERLINE OF GAUGE AS SHOWN.



650.5320 - XX - ELEC - 01 ~~XXX~~ SHOWN




650.5320 - XX - ELEC - 02 ~~XXX~~ SHOWN

PJ5

ORIGINAL DATE 05-30-14	DART AEROSPACE 8030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
DRAWN BY J. GARDINER		
CHECKER P. BRAVO	ELECTRIC VALVE ASSY	
DRAWING APPROVAL P. BRAVO		
CONTRACT No.	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°	
SIZE B		
CAGE CODE 07MZ6		
DWG. NO. 650.5300		
SCALE NONE		
REV. PJ5	SHEET 15 OF 16	

650.5321 CONFIGURATION ONLY

ORIGINAL DATE CMD-DA-YRO	05-30-14		8030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300		
DRAWN BY J. GARDINER	CHECKER P. BRAVO		APICAL INDUSTRIES, INC. dba DART AEROSPACE		
DRAWING APPROVAL 05-30-14		ELECTRIC VALVE ASSY			
CONTRACT No.		SIZE	CAGE CODE	DWG. NO.	REV.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ± .01 5 PLACE DECIMALS ± .005 ANGLES ± .5°		B	07M26	650.5300	PJ5
SCALE NONE			SHEET 16 OF 16		